CO-9X **User Manual**

FireAngel®

7 YEAR LIFE
CARBON MONOXIDE
POISONOUS GAS ALARM

Are you protected against toxic smoke from a house fire?

For a full range of smoke alarms, fire blankets and extinguishers visit **www.sprue.com**

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Note: This user manual is also available in large text and other formats. Please call **0800 141 2561** for further information.

INTRODUCTION

Congratulations! You've made a wise investment in an innovative product and your personal safety. The FireAngel CO-9X 7 Year Life Carbon Monoxide Poisonous Gas Alarm is one of a new generation of domestic life safety products from Sprue Safety Products Limited, which combines the latest technology and innovative design to provide an aesthetically pleasing and effective contribution to your home safety.

The FireAngel range of products is constantly being improved and expanded. Please visit www.fireangel.co.uk to find out about the latest additions to our product range.

Sprue Safety Products manufactures some of the most technologically advanced carbon monoxide detectors in the world.

FEATURES

- An advanced electrochemical sensor designed to accurately measure low levels of carbon monoxide (CO) providing an early warning of toxic CO levels in your home.
- Detects carbon monoxide continuously.
- Resistant to false alarms caused by normal household contaminants.
- Sounds a loud 85dB alarm (at 1metre (3 feet)) to alert you in case of an emergency.
- Test/reset button.
- Regular self-check to ensure detector is operating correctly.
- Simple to mount, portable, ideal for travelling.
- Certified to the European Carbon Monoxide alarm Standard EN 50291-1: 2010, EN 50291-2: 2010.
- 7 year warranty.

CARBON MONOXIDE AND HOW IT CAN AFFECT YOU AND YOUR FAMILY

Carbon monoxide is a dangerous, poisonous gas that kills and injures hundreds of people each year. It is often referred to as the silent killer because it has no odour or taste and cannot be seen. Like oxygen, CO enters the body through the lungs during the normal breathing process. It competes with oxygen by replacing it in the red blood cells, thereby reducing the flow of oxygen to the heart, brain and other vital organs. In high concentrations, CO can kill in minutes.

Many cases of reported carbon monoxide poisoning indicate that while victims are aware they are not feeling well, they become disorientated and unable to save themselves by either exiting the building or calling for assistance. Exposure during sleep is particularly dangerous because the victim usually does not wake up.

Symptoms of CO poisoning

The following symptoms may be related to CO poisoning which all household members should be made aware of:

- **Mild Exposure:** Slight headache, nausea, vomiting, fatigue (often described as 'flu-like' symptoms).
- **Medium Exposure:** Severe throbbing headache, drowsiness, confusion, fast heart rate.
- **Extreme Exposure:** Unconsciousness, convulsions, cardiorespiratory failure, death.

Your FireAngel CO detector monitors the level of CO as parts per million (ppm) in the atmosphere surrounding the detector.

35ppm	The maximum allowable concentration for continuous exposure for healthy adults in any 8 hour period, as recommended by the Occupational Safety and Health Administration (OSHA).
200ppm	Slight headache, fatigue, dizziness, nausea after 2 - 3 hours.
400ppm	Frontal headaches within 1 - 2 hours, life threatening after 3 hours.
800ppm	Dizziness, nausea and convulsions within 45 minutes. Unconsciousness within 2 hours. Death within 2 - 3 hours.

Should you suspect CO may be affecting you or your family, open the doors and windows of your property to ventilate, turn off your appliances and evacuate the premises. At this time the authorities should be contacted to locate the source of the carbon monoxide before re-entering the building. Medical attention should be sought for anyone suffering the effects of CO poisoning.

Common sources of CO

- Oil and gas boilers
- Portable generators
- Oil or solid fuel cookers
- Gas or paraffin heaters
- Barbecues
- Clogged chimneys
- Wood or gas fireplaces
- Cigarette smoke
- Gas appliances
- Any fossil fuel burning appliance

WARNING: This FireAngel carbon monoxide detector is not a combustible gas detector, nor a smoke detector. Please install the proper detectors to detect combustible gases, or smoke.

This CO detector should not be seen as a substitute for the proper installation, use, and maintenance of fuel-burning appliances (including appropriate ventilation and exhaust systems), nor the sweeping of chimneys.

WARNING: Variables relating to your fuel burning appliances can change at any point eg. the flue or chimney could suddenly become blocked or damaged, appliances may stop running correctly or circumstances in neighbouring properties may change resulting in the presence of carbon monoxide. For this and other reasons do not use this carbon monoxide detector on an intermittent basis, or as a portable detector for trying to trace one source of the spillage of combustion products from fuelburning appliances or from chimneys.

Do not:

- IGNORE ANY WARNING FROM YOUR CO DETECTOR!
- Burn charcoal inside your home, caravan, tent or cabin.
- Install, convert or service fuel-burning appliances without proper knowledge, skill and expertise.
- Use a gas cooker for heating a room.
- Operate unvented gas burning appliances using paraffin or natural gas in closed rooms.
- Operate petrol-powered engines indoors or in confined areas.
- Ignore a safety device when it shuts an appliance off.

Always:

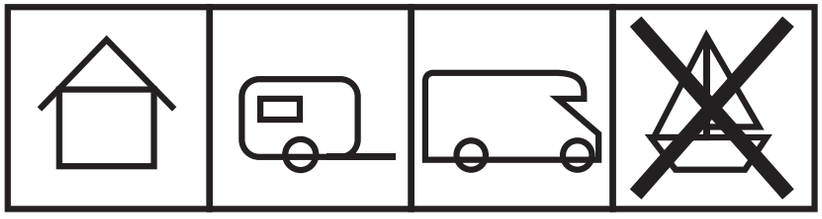
- Buy appliances accepted by a recognised testing laboratory.
- Install appliances according to the manufacturer's instructions.
- Have appliance installations carried out by professionals (for gas appliances engineers should be registered).
- Have your appliances checked regularly by a qualified service engineer.
- Have your chimneys and flues cleaned professionally every year.
- Make regular visual inspections of all fuel-burning appliances.
- Do not barbecue indoors, or in an attached garage.
- Open windows when a fireplace or

oil / solid fuel cooker is in use.
- Only install CO detectors that meet the requirements of EN 50291-1: 2010 and EN 50291-2: 2010 in your home.
- Be aware of CO poisoning symptoms (see page 3).

EDUCATE YOURSELF AND YOUR FAMILY ON THE SOURCES AND SYMPTOMS OF CO POISONING AND HOW TO USE YOUR CARBON MONOXIDE DETECTOR.

WHERE TO INSTALL YOUR DETECTOR

This CO alarm is suitable for use in domestic premises, (caravan holiday homes) caravans and motor caravans.



The following advice is applicable to all intended applications, there are special instructions at the end of this section relating to positioning in caravan holiday homes, caravans and motor caravans.

WARNING: This detector will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other areas.

In which room should the detector be installed?

Ideally, an apparatus should be installed in every room containing a fuel burning appliance. Additional apparatus may be installed to ensure that adequate warning is given for occupants in other rooms, by locating apparatus in:

- Remote rooms in which the occupant(s) spend considerable time whilst awake and from which they may not be able to hear an alarm from apparatus in another part of the premises, and
- Every sleeping room.

However, if there is a fuel burning appliance in more than one room and the number of apparatus is limited, the following points should be considered when deciding where best to put the apparatus:

- Locate the apparatus in a room containing a flueless or open-flued appliance, and
- Locate apparatus in a room where the occupant(s) spend most time.
- If the domestic premises is a bedsit (a single room serving as both sitting and bedroom) then the apparatus should be put as far from the cooking appliances as possible but near to where the person sleeps.
- If the appliance is in a room not normally used (for example a boiler room), the apparatus should be put just outside the room so that the alarm may be heard more easily. Alternatively, a remote alarm siren may be connected to a type A apparatus located in a room(s) containing a fuel-burning appliance.

Where in the room should I place the detector?

Apparatus located in the same room as a fuel-burning appliance, for both wall and ceiling mounted apparatus the following applies:

a The apparatus should be at a horizontal distance of between 1m and 3m from the potential source.

b If there is a partition in a room, the apparatus should be located on the same side of the partition as the potential source.

c Carbon Monoxide detectors in rooms with sloped ceilings should be located at the high side of the room.

In addition to the above the following must be observed:
If the apparatus is located on a wall:

a it should be located close to the ceiling;

b it should be located at a height greater than the height of any door or window;

c it should be at least 150mm from the ceiling.

If the apparatus is located on the ceiling:

a it should be at least 300mm from any wall and any ceiling obstruction e.g. light fittings.

Apparatus located in sleeping rooms and in rooms remote from a fuel burning appliance should be located relatively close to the breathing zone of the occupants.

Where not to put the detector

The apparatus should not be installed:

- In an enclosed space (for example in a cupboard or behind a curtain).
- Where it can be obstructed (for example by furniture).
- Directly above a sink.
- Next to a door or window.
- Next to an extractor fan.
- Next to an air vent or other similar ventilation openings.
- In an area where the temperature may drop below -10°C or exceed 40°C.
- Where dirt and dust may block the sensor.
- In a damp or humid location (for example in a bathroom).
- In the immediate vicinity of the cooking appliance.
- Within 1m (3 feet) of mobile phones.

Caravans

Caravans may have additional risks of carbon monoxide ingress through air vents due to the nearby presence of other vehicles, engines, generators or barbecues, however this does not change the basic guidance on location of the alarm. Caravans should be fitted with an alarm in the same room as any combustion appliance(s), located in accordance with previous advice in this section. If the caravan has a single living space which incorporates the sleeping accommodation, it can be considered to be equivalent to a bedsit, and a single alarm is sufficient. However, any sleeping

accommodation which is in a separate room from the combustion appliance(s) should also contain an alarm, located in accordance with previous advice in this section.

It is not always possible to find an optimum location for an apparatus, for example, a small caravan may not have suitable vertical surfaces available. Nevertheless, when fitting an apparatus in such situations, the two most important considerations when selecting an appropriate location are:

- Not mounting the apparatus directly above a source of heat or steam; and
- Mounting the apparatus at a distance of 1 – 3 m from the nearest edge of the potential source.

HOW TO INSTALL YOUR DETECTOR

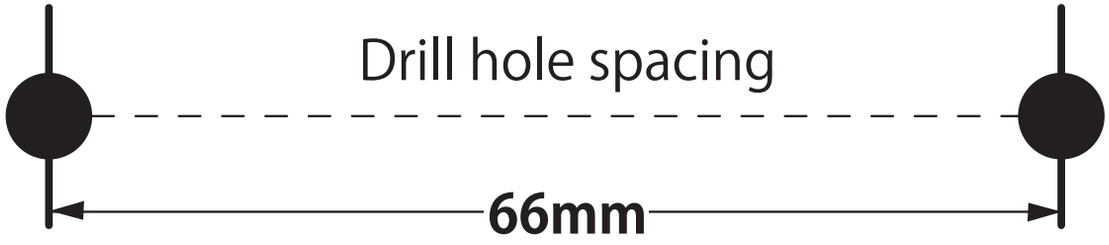
NOTE: This apparatus should be installed by a competent person who feels able to install it according to the instructions.

Firstly write the installation date on your detector in the area provided. We recommend that your detector is installed on the wall.

To mount on a wall or ceiling:
Please ensure that you use the screws provided, as they were chosen specifically for use with this product. Use template below for guidance on marking hole positions. Drill holes into the wall. Insert the plastic wall plugs. Screw in the screws. Ensure screws are protruding from the wall by 3mm to allow detector to slot onto screws.

To place on a shelf:
The base of the detector has been designed to allow it to stand freely on a shelf.

WARNING: When placing on a shelf, please adhere to the same positional recommendations as described on page 5 and 6.



POWER PACK ACTIVATION

See diagram opposite

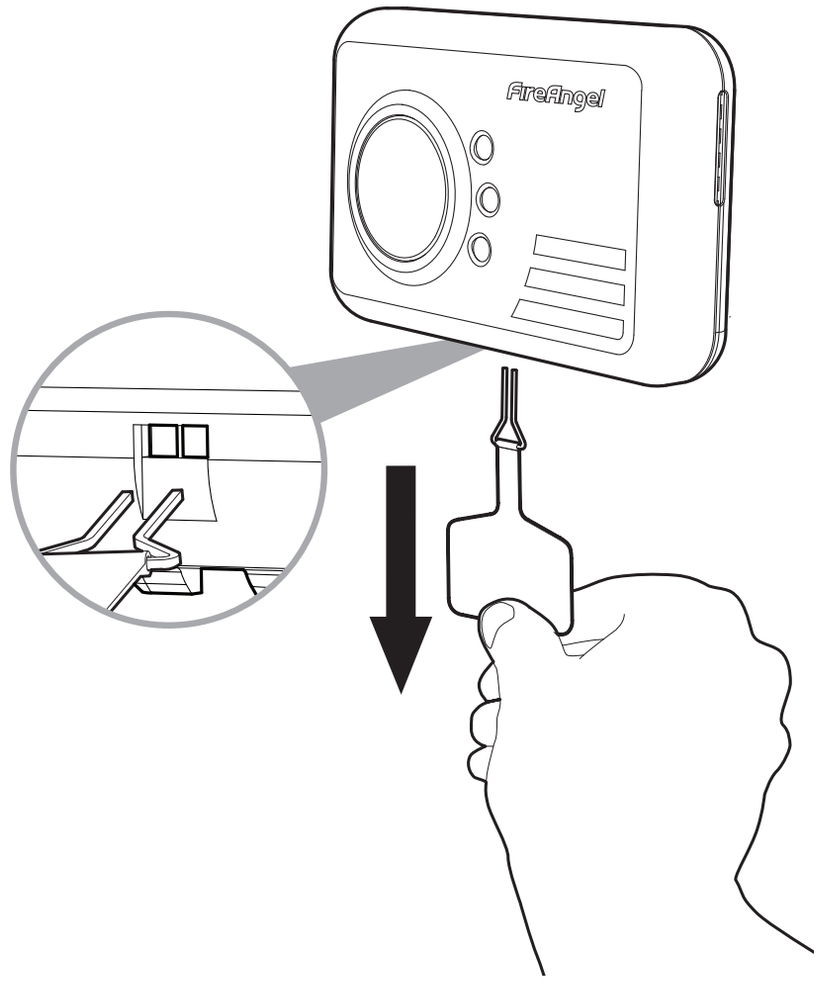
a Your detector comes complete with an integrated power pack that will provide power for its entire operational life. To activate the power pack you need to pull the disabling tab (see image). This will in turn pull out the metal disabling clip, which is attached to the end of the tab, from the disabling socket which is situated on the underside of the detector. Retain the disabling tab for future use by taping it to page 20 of this manual.

b When the detector is activated the Power LED will begin to flash green once every minute to indicate that the detector is receiving power from the power pack and is fully operational.

c Test the sounder, power pack and circuitry by pressing and holding the centre of the Test/Reset button briefly to confirm that the detector is operating properly. The sounder will sound as soon as the button is pressed, and the Alarm LED will illuminate red indicating that the sounder is working and the power pack is providing power to the unit. This test for the sounder, power pack and circuitry should be performed on a weekly basis. This should be continued for the lifetime of the product.

WARNING: Prolonged exposure to the sounder in close proximity to your ears may damage your hearing.

Under normal operating conditions, the power pack will last for the lifetime of the product ie. 7 years.

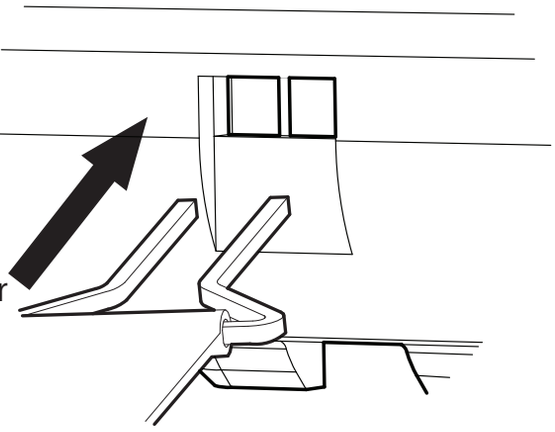


The detector will not protect against the risk of carbon monoxide poisoning when the power pack has drained.

WARNING: Prolonged exposure to extreme high or low temperatures may reduce the life of the power pack.

POWER PACK DEACTIVATION

Your CO-9X is portable, making it ideal for taking with you on holiday. You will need to deactivate your detector when travelling or even when storing e.g. when decorating. Fitting is the reverse of removal. To deactivate the detector the two ends of the metal clip must be inserted into the corresponding holes in the disabling socket located on the underside of the detector (see image). You can ensure that the product is disabled by pressing the test button - if there is no sound from the sounder then the clip has been fitted correctly.



The clip must remain in the disabling socket to keep the power pack deactivated.

NOTE: If the disabling tab is no longer available then the clip can be replicated by opening out a thin metal paper clip into a U-shape.

OPERATING FEATURES

Your FireAngel detector offers many features which set it apart from other CO detectors on the market today.

Test/Reset button feature
This button will:

- Test the sounder, power pack and circuitry
- Allows you to test the sensor by introducing a source of CO into the detector (see 'Testing The Sensor' below).
- Silence the loud 85dB (at 1 metre (3 feet)) sounder during an alarm (only for alarms due to levels of CO of less than 50ppm).

Testing the sounder, power pack and circuitry

Test the sounder, power pack and circuitry by pressing and releasing the Test/Reset button to confirm that the detector is operating properly. The sounder should sound as soon as the button is pressed, and the Alarm LED will illuminate red indicating that the sounder is working and the power pack is providing power to the unit. This test for the sounder, power pack and circuitry should be performed on a weekly basis.

Testing the sensor

NOTE: We suggest the use of an incense stick as the inefficient way in which this product burns means the smoke given off contains a detectable localised amount of carbon monoxide. Alternative sources of

smoke, for example an extinguished candle or match, will not contain sufficient levels of carbon monoxide to obtain a response from the detector during this test. Please note your CO detector will not detect smoke.

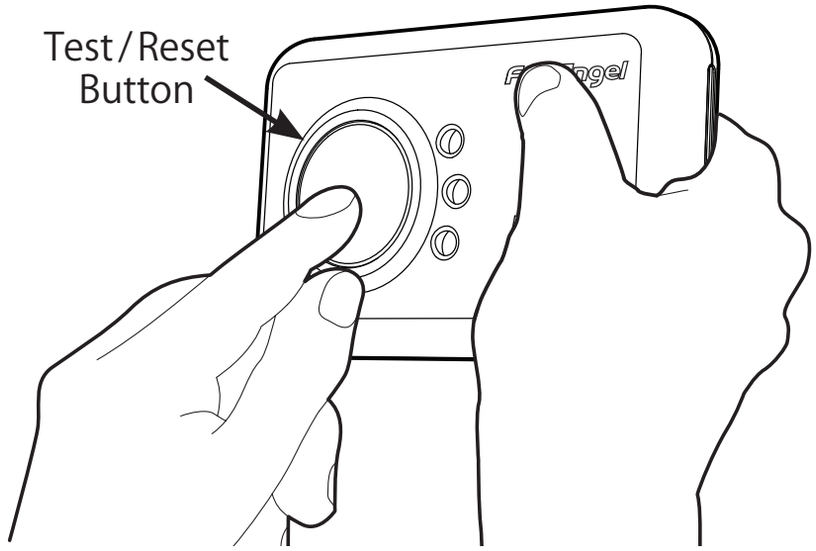
CAUTION: Sensor testing should only be performed by a responsible adult. This test should be performed annually.

NOTE: Aerosol CO may be used in order to avoid having to burn incense sticks etc. However we recommend that incense sticks are used as they are cheap and readily available.

- Read all steps thoroughly before attempting to test your the sensor

Step 1 If the detector is wall or ceiling mounted unhook the detector from the screws.

Step 2 Cover the sounder vents with one hand. Press and hold the Test/Reset button down with your thumb/finger until the Fault LED illuminates yellow and the sounder sounds for a second time (this should happen after around 5 seconds). Release the Test/Reset button. Upon releasing the Test/Reset button the Fault LED will flash yellow once every second. This indicates that the sampling rate of the detector has increased and can be tested using a known source of CO.



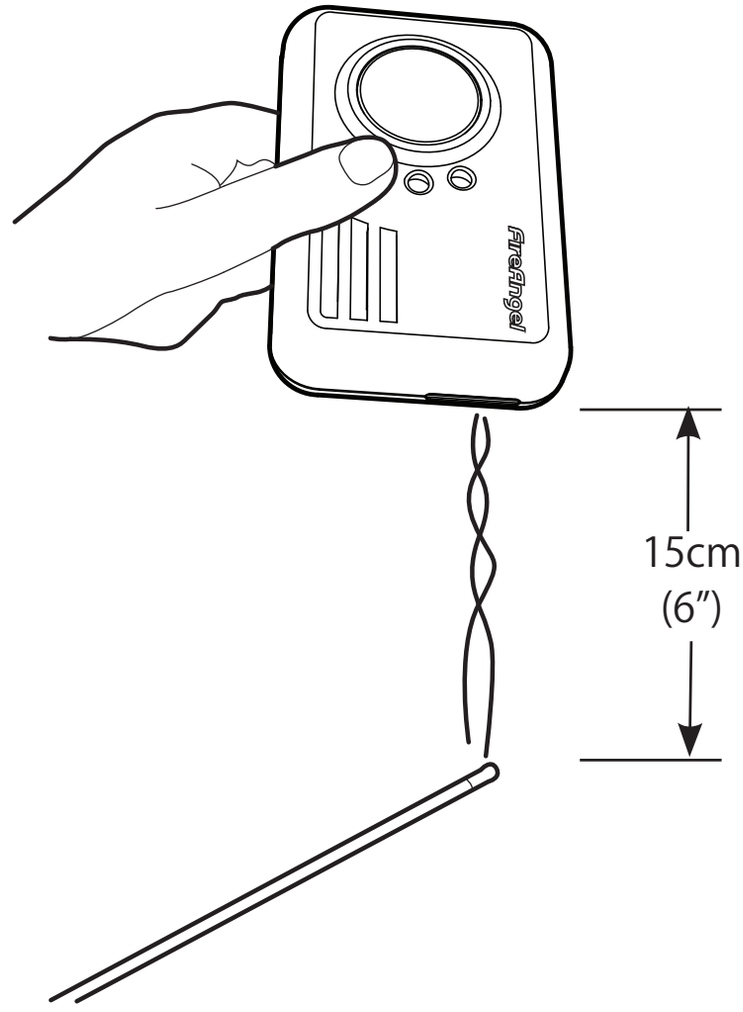
Step 3 Light an incense stick using a match or lighter. Be sure to blow out the flame so that the incense stick is smouldering. Extinguish the lighter, or put out the match and place it into a dish of water.

Step 4 Turn the detector on its side so that the vents on the right hand side of the detector are pointing downwards (see diagram opposite). Hold the burning incense stick 15 cm (6 inches) below the detector, so that the smoke enters the vents on the side of the detector. An increase in the localised carbon monoxide level within the sensor to more than 50ppm will cause the sounder to sound for one cycle of four loud beeps and the Fault LED to illuminate yellow for a short time. This is the end of the test. The Fault LED will no longer flash yellow and the detector will go back to normal operating

mode ie. the Power LED will flash green once every minute (It may take up to two minutes of exposure to the smoke for the localised level of carbon monoxide within the sensor to reach over 50ppm). Now move the source of CO away from the detector as the test is finished.

Step 5 After step 4, put out the incense stick by placing it into a dish of water. Ensure that all flames have been extinguished.

NOTE: If the localised carbon monoxide level within the sensor does not reach 50ppm during the test, the sensor test will stop automatically after 3 minutes.



UNDERSTANDING THE PRODUCT'S INDICATORS

The higher the concentration of carbon monoxide detected by the detector, the quicker it will respond. When sufficient carbon monoxide is detected a loud audible signal (85 dB at 1m (3 feet)) will be emitted and the Alarm LED will flash red once every second.

The Alarm will sound:

- Between 60 and 90 minutes when exposed to a minimum of 50ppm of CO.
- Between 10 and 40 minutes when exposed to a minimum of 100ppm of CO.
- Within 3 minutes when exposed to a minimum of 300ppm of CO.

Fault / End of life signal:

The unit continuously checks the settings of its sensor and circuitry. If any of these settings are found to be incorrect or if the power pack becomes low then the detector will emit a single chirp once per minute and the Fault LED will flash yellow once per minute for up to 30 days.

IMPORTANT: This does NOT mean that the detector has detected carbon monoxide.

MAINTAINING / TESTING YOUR DETECTOR

Maintenance

Your detector will alert you to potentially hazardous CO concentrations in your home when maintained properly. To maintain your FireAngel detector in proper working order, and to ensure that the sensor will last for the lifetime of the product, it is recommended that you:

- Test the sounder, power pack and circuitry of your detector at least once per week by pressing the Test/Reset button briefly (see page 9).
- Perform the Sensor Test annually (see page 9).
- Keep the detector free of dust by gently vacuuming the case with a soft brush attachment when required.

To prevent the possibility of contaminating the sensor in your detector and thus affecting its reliability:

- Never use cleaning solutions on your detector. Simply wipe with a slightly damp cloth.
- **Do not** paint the detector.
- **Do not** spray aerosols on or near the detector.
- **Do not** use any solvent based products near the detector.
- If installing in a caravan there maybe other substances present, that may not normally be found in the home, that could effect the reliability of the CO alarm. Avoid using the following in close proximity to the alarm; oils, cleaning fluids, polishes, paints and greases.
- Move the detector to a safe location and store in a plastic bag before painting, wall papering, or performing any other activities using substances that emit strong fumes. Remember to remove it from the bag and replace the detector when these activities are finished.

Failure of any test should be reported to the technical support line (see page 19 for contact details).

Do not attempt to repair your CO detector. Do not remove any screws or open the main casing of your detector. Any attempt to do so may cause malfunction and will invalidate the warranty.

WHAT TO DO IN THE EVENT OF AN ALARM

WARNING: A loud alarm is a warning that unusually high and potentially lethal levels of carbon monoxide are present. Never ignore this alarm, further exposure can be fatal. Immediately check residents for symptoms of carbon monoxide poisoning, and contact the proper authorities to resolve all CO problems. **NEVER IGNORE ANY ALARM.**

Please carefully review this owner's manual to ensure that you know what actions to take in the event of an alarm.

What to do during an alarm:

- Keep calm and open the doors and windows to ventilate the property.
- Stop using all fuel burning appliances and ensure, if possible, that they are turned off.
- Evacuate the property leaving the doors and windows open.
- Ring your gas or other fuel supplier on their emergency number; keep the number in a prominent place.

Write your fuel supplier's emergency number here (see opposite for more useful numbers):

_____

- Do not re-enter the property until the alarm has stopped. When exposed to fresh air it can take up to 10 minutes for the sensor to clear and the alarm to stop depending on the level of carbon monoxide detected.
- Get medical help immediately for anyone suffering the effects of carbon monoxide poisoning (headache, nausea), and advise that carbon monoxide poisoning is suspected.
- **Do not** use the appliance again until it has been checked by an expert. In the case of gas appliances the engineer must be registered.

USEFUL NUMBERS

National Gas Emergency Service	**0800 111 999** (24 Hours)
Gas Safe register	**0800 408 5500**
Solid Fuel Association Advisory service for domestic and solid fuel appliances	**0845 601 4406**
HETAS Trade association for solid fuel engineers	**0845 223 3033**
OFTEC Trade association for Oil Fired Appliance engineer	**0845 658 5080**
NACS National Association of Chimney Sweeps	**01785 811732**
IPHE Institute of Plumbing and Heating Engineers	**01708 472791**

TECHNICAL INFORMATION

Detector Specifications:	Model CO-9X
Sensor Type:	Electrochemical
Sensor Life:	7 Years
Alarm Sound Level:	85dB at 1 metre (3 feet)
Power Pack Life:	7 years (Life of product)
Temperature Range:	-10°C (14°F) to 40°C (104°F)
Operating Humidity Range:	30 - 90% RH
Weight:	90 grams (3.2oz)
Certified to:	EN 50291-1: 2010, EN 50291-2: 2010

This FireAngel carbon monoxide detector is designed to continuously monitor for CO. Its response times meet the requirements of European standard EN 50291-1: 2010 and EN 50291-2: 2010.

The alarm will sound:

- Between 60 and 90 minutes when exposed to 50ppm of CO.
- Between 10 and 40 minutes when exposed to 100ppm of CO.
- Within 3 minutes when exposed to CO levels of 300ppm or more.

WARNING: APPARATUS CONFORMING TO THIS STANDARD MAY NOT PROTECT PEOPLE WHO ARE AT SPECIAL RISK FROM CARBON MONOXIDE EXPOSURE BY REASON OF AGE, PREGNANCY OR MEDICAL CONDITION. IF IN DOUBT, CONSULT YOUR DOCTOR.

A CARBON MONOXIDE DETECTOR IS NOT A SUBSTITUTE FOR A SMOKE ALARM OR A COMBUSTIBLE GAS DETECTOR.

REPLACE UNIT AFTER 7 YEARS OF OPERATION.

DISPOSAL

Waste electrical products should not be disposed of with regular household waste.

Please recycle where facilities exist. Check with your local authority, retailer or manufacturer for recycling/disposal advice as regional variations apply.

The power pack should be deactivated before disposal. To do this, insert the pins on the end of the disabling tab back in to the socket on the underside of the detector (see page 9). If the disabling tab is no longer available then the clip can be replicated by opening out a thin metal paper clip into a U-shape.

WARNING: DO NOT ATTEMPT TO OPEN - DO NOT BURN.

7 YEAR WARRANTY

Warranty coverage
Sprue Safety Products Ltd warrants to the original purchaser that its enclosed sealed carbon monoxide detector be free from defects in materials and workmanship under normal residential use and service for a period of 7 (seven) years from the date of purchase.

Provided it is returned with postage prepaid and proof of purchase, Sprue Safety Products Ltd hereby warrants that during the 7 (seven) year period commencing from the date of purchase Sprue Safety Products Ltd, at its discretion, agrees to replace the unit free of charge. The warranty on any replacement FireAngel CO-9X 7 Year Life Carbon Monoxide Poisonous Gas Alarm will last for the remainder of the period of the original warranty in respect of the detector originally purchased – that is from the date of original purchase and not from the date of receipt of the replacement product. Sprue Safety Products Ltd reserves the right to offer an alternative product similar to that being replaced if the original model is no longer available or in stock. This warranty applies to the original retail purchaser from the date of original retail purchase and is not transferable. **Proof of purchase is required.**

Warranty disclaimers
This warranty does not cover damage resulting from accident, misuse, disassembly, abuse or lack of reasonable care of the product, or applications not in accordance with the user manual. It does not cover events and conditions outside of Sprue Safety Products Ltd's control, such as Acts of God (fire, severe weather etc). It does not apply to retail stores, service centres or any distributors or agents. Sprue Safety Products Ltd will not recognise any changes to this warranty by third parties. Sprue Safety Products Ltd shall not be liable for any incidental or consequential damages caused by the breach of any expressed or implied warranty. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to 7 years.

This warranty does not affect your statutory rights. Except for death or personal injury, Sprue Safety Products Ltd shall not be liable for any loss of use, damage, cost or expense relating to this product or for any indirect, or consequential loss, damages or costs incurred by you or any other user of this product.

RETURNS

We recommend that you contact the FireAngel Technical Support Line in the first instance on **0800 141 2561**, text phone users dial **18001 0800 141 2561** or callers from EIRE dial **1-800 523171** as we may be able to remedy the problem quickly over the phone (this is to prevent unnecessary returns that take a longer time to process). Alternatively e-mail: **technicalsupport@fireangel.co.uk**

If there is a fault that we are unable to resolve then our technical support team member will provide you with a returns authority number so that your product can be returned for testing.

To return your FireAngel CO-9X under warranty, send it suitably packed and with the power pack deactivated (see page 9) with postage prepaid; a note indicating the returns authority number and describing the reason for return, with proof of purchase to:

Sprue Safety Products Limited
Vanguard Centre
Sir William Lyons Road
Coventry, CV4 7EZ
UK

PRODUCT RANGE

Sprue Safety Products Ltd manufactures an extensive range of home safety products including smoke alarms, carbon monoxide detectors, fire extinguishers and remote sounding devices. For more details visit **www.sprue.com**

Technical Support Line
0800 141 2561
UK Textphone users dial **18001 0800 141 2561**
EIRE dial **1-800 523171**

Email
technicalsupport@fireangel.co.uk

Web
www.fireangel.co.uk

A Sprue Safety Products Brand

Sprue Safety Products Ltd.
Vanguard Centre, Sir William Lyons Road, Coventry CV4 7EZ UK

CO-9X
GN0283R8

EN 50291-1: 2010
EN 50291-2: 2010
KM 551504